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EXAMINER

PATEL, ASHOKKUMAR B

ART UNIT

PAPER NUMBER

2154

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/775,036

Applicant(s)

JANO ET AL.

Examiner

Ashok B. Patel

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

### DETAILED ACTION

1. Claims 1-34 are subject to examination.

#### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-34 are rejected under 35 U.S.C. 102(e) as being anticipated by Saleh et al. (hereinafter Saleh)(US 6, 163, 701).

#### **Referring to claim 1,**

The reference teaches a communication network, comprising: a plurality of intermediaries generating and transmitting a request for information and a response to the request; (Abstract) and a location token requesting location information corresponding to the first intermediary (Fig.1, element 103) and transmitted between the plurality of intermediaries within the request and the response. (Fig.1, elements 118, 121 and 124).

#### **Referring to claims 2 and 3,**

The communication network of claim 1, wherein one or more of the plurality of intermediaries inserts the location information within the location token in response to receipt of the location token. (Abstract). It is inherent to the location communications

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between an MS (mobile station) and the base station infrastructure which typically include simultaneous communications with more than one base station, a related useful notion is that of a "location signature" (signature code) which is the composite wireless signal characteristic values for signal samples between an MS to be located and a single base station. (wherein the location token includes signature codes corresponding to location information inserted within the location token.)

**Referring to claim 4,**

The reference teaches that system (101) includes location device equipment (121), which generates raw location information of the mobile station (103) based on input received from a message compatible with the communication system. (Abstract). The reference also teaches the system (101) further includes a location calculator (124) which determines the location information related to the mobile station (103) based on the raw location information of the mobile station (103) and which also provides the location information related to the mobile station (103) to the mediation device (118) for storage and to an intelligent network device (106) for use in location based services (127). (Abstract and Fig. 1). (wherein the location information is incrementally inserted by one or more of the plurality of intermediaries.)

**Referring to claim 5,**

The reference teaches the communication network of claim 1, the plurality of intermediaries including a first intermediary (Fig.1, element 103) and a second intermediary (Fig.1, element 121), wherein the plurality of intermediaries other than the first and the second intermediary are between the first and the second intermediary

(Fig.1, elements 124 and 118), (and wherein the location information is inserted in both directions between the first intermediary and the second intermediary by one or more of the plurality of intermediaries). (Fig.1, elements 124 and 118, Fig. 2).

**Referring to claim 6,**

The reference teaches that system (101) includes location device equipment (121) which generates raw location information of the mobile station (103) based on input received from a message compatible with the communication system. (Abstract). The reference also teaches the system (101) further includes a location calculator (124) which determines the location information related to the mobile station (103) based on the raw location information of the mobile station (103) and which also provides the location information related to the mobile station (103) to the mediation device (118) for storage and to an intelligent network device (106) for use in location based services (127). (Abstract and Fig. 1). (The communication network of claim 1, further comprising a location command requesting the location information, the location command positioned within the location token, wherein the location information is inserted within the location token by one or more of the plurality of intermediaries in response to the location command.)

**Referring to claim 7,**

A communication network, comprising: a first intermediary generating and transmitting a request for information;(Fig.1, element 103), a second intermediary generating a first response to the request, the first response including a first location token requesting location information corresponding to the first intermediary (Fig.1, element 121, col.4,

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lines 45-48); and a third intermediary between the first and the second intermediary, wherein the first response is transmitted between the first intermediary and the second intermediary through the third intermediary.(Fig.1, elements 101 and 118, col. 4, lines 55-60).

**Referring to claim 8,**

The communication network of claim 7, wherein the first location token includes a first location command requesting insertion of location information within the location token by either the first intermediary or by both the first and the third intermediary. (Abstract).

**Referring to claims 9, 10, 11, 12 and 13,**

The communication network of claim 8, wherein the first intermediary generates a second location token including location information available to the first intermediary in response to the first location command, the second location token including a second location command requesting insertion of location information within the second location token, and wherein the third intermediary inserts location information available to the third intermediary in response to the second location command, and the second intermediary generates and transmits a second response to the first intermediary through the third intermediary, the second response including the location information inserted within the second location token by the first and the third intermediary and, the communication network of claim 9, wherein the second location token is an update of the first location token and, the communication network of claim 9, wherein the first and the second location token include signature codes corresponding to the intermediary inserting location information (It is inherent to the location communications between an

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MS (mobile station) and the base station infrastructure which typically include simultaneous communications with more than one base station, a related useful notion is that of a "location signature" (signature code) which is the composite wireless signal characteristic values for signal samples between an MS to be located and a single base station.) and, the communication network of claim 9, wherein the second intermediary inserts location information available to the second intermediary within the second response and, the communication network of claim 9, wherein the second intermediary inserts location information available to the second intermediary within the first response. (Abstract, Figs. 1-3, col. 2, line 52 to column 4, line 44, col.6, lines 7-39).

**Referring to claims 14, 15, 16, 17 and 18,**

The communication network of claim 8, wherein, in response to the first location command, the third intermediary inserts location information available to the third intermediary within the first location token and the first intermediary generates a second location token, including the location information inserted by the third intermediary and location information available to the first intermediary, and wherein the second intermediary generates and transmits a second response to the first intermediary through the third intermediary, the second response including the location information inserted within the updated location token and, the communication network of claim 14, wherein the first and the second location token include signature codes corresponding to the intermediary inserting location information (It is inherent to the location communications between an MS (mobile station) and the base station infrastructure which typically include simultaneous communications with more than one base station,

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a related useful notion is that of a "location signature" (signature code) which is the composite wireless signal characteristic values for signal samples between an MS to be located and a single base station.) and, the communication network of claim 14, wherein the second intermediary inserts location information available to the second intermediary within the second response and the communication network of claim 14, wherein the second intermediary inserts location information available to the second intermediary within the first response and, the communication network of claim 14, wherein the second location token is an update of the first location token. (Abstract, Figs. 1-3, col. 2, line 52 to column 4, line 44, col.6, lines 7-39).

**Referring to claims 19 and 20,**

The reference teaches a communication network, comprising: a first intermediary generating and transmitting a request for information, the request including a first location token requesting location information corresponding to the first intermediary;(Fig.1, element 103); a second intermediary generating a response to the request, the response including a second location token; (Fig.1, element 121) and a third intermediary, between the first and the second intermediary, transmitting the request and the response between the first and the second intermediary (Fig.1 element 101 and 118), wherein the first intermediary includes location information available to the first intermediary within the first location token, and the second intermediary includes location information previously inserted within the first location token in the second location token , and wherein the second location token is an update of the first location token. (The reference teaches that LIB stores the final calculated location which



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can be used again as a raw data by LDF for subsequent requests for locations. Col. 4, lines 55-60).

**Referring to claim 21,**

The communication network of claim 19, wherein the third intermediary (Fig.1, element 101 and 118) inserts location information within second location token as the response is transmitted from the second intermediary (Fig.1, element 121) to the first intermediary (Fig.1 element 103, col.4, lines 4-14).

**Referring to claim 22,**

The communication network of claim 19, wherein the second intermediary inserts location information available to the second intermediary within the second location token. (Fig. 1, element 121, col. 4, lines col.4, lines 4-14)

**Referring to claims 23 and 24**

The communication network of claim 19, wherein the third intermediary inserts location information within the first location token as the request is transmitted from the first intermediary to the second intermediary. (Fig.1 element 103, col.4, lines 4-14), and the communication network of claim 19, wherein the first and the second location token include signature codes corresponding to the intermediary inserting location information. (It is inherent to the location communications between an MS (mobile station) and the base station infrastructure which typically include simultaneous communications with more than one base station, a related useful notion is that of a "location signature" (signature code) which is the composite wireless signal characteristic values for signal samples between an MS to be located and a single base station.)

**Referring to claims 25 and 26,**

The reference teaches a method for transferring and collecting location information in a communication network, comprising the steps of: generating a request for information at a first intermediary (Fig.1, element 103); transmitting the request to a second intermediary through a third intermediary (Fig.1, elements 118, 121 and 124); generating a response to the request for information; and transmitting a first location token between the first, second and third intermediaries requesting insertion of location information corresponding to the first intermediary. (Abstract, Figs. 1-3, col. 2, line 52 to column 4, line 44, col.6, lines 7-39), and the step of inserting signature codes identifying the intermediary inserting the location information. (It is inherent to the location communications between an MS (mobile station) and the base station infrastructure which typically include simultaneous communications with more than one base station, a related useful notion is that of a "location signature" (signature code) which is the composite wireless signal characteristic values for signal samples between an MS to be located and a single base station.)

**Referring to claims 27- 34,**

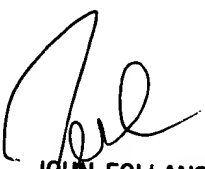
The reference teaches the method which is repeated in the claims 25-34 to generate the updated location information by communicating the location token through first second and third intermediary as shown and described in the Abstract, Figs. 1-3, col. 2, line 52 to column 4, line 44, col.6, lines 7-39.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok B. Patel whose telephone number is (703) 305-2655. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abp  
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